

**“CATALASAN NUCLEAR FUSION REACTOR”**  
**A High Speed Rotating Centrifugal-Laser  
Nuclear Fusion Reactor**

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***Abstract*** – Generations of *Physicists* have attempted to build Thermonuclear Fusion Reactors in hope of harnessing the Energies of the ubiquitous Hydrogen and Hydrogen Nuclear Fusion Reactions similar to our Sun's. With respect to physicists, the failure, I believe, involves overcomplicated design structures. Thus, I have chosen my design as a very practical High-Speed Rotating Centrifugal-Laser Nuclear Fusion Reactor, a design based on Demirkhanov's Solenoid Experiment where plasma is trapped radially by an intense electromagnetic field induced by a powerful Solenoid. In my idea, the Solenoid's plasma is then heated on one end of the solenoid cylinder with a Free-Electron Laser, which is also a working Laser Fusion Device. And, on the other end of the solenoid cylinder, a Centrifugal Force is applied linearly to the plasma by revolving the entire Solenoid at its end on its primary axis. Since Demirkhanov's system works and also its Free-Electron Laser, it follows that this Nuclear Fusion Reactor will also work, having Demirkhanov's working system a viable proof of experimentation.